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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,640	12/10/2001	Theodore J. Letavic	US010631	7554
24737	7590 07/31/2003			
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			EXAMINER	
			NGO, NGAN V	
DRIARCLIFE	MANOK, NI 10310			
			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 07/31/2003	ı

Please find below and/or attached an Office communication concerning this application or proceeding.

	77	Application N .	Applicant(s)
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~ '6	Office Action Summary	10/015,640	LETAVIC ET AL.
	Onice Action Summary	Examiner	Art Unit
	The MAN INC DATE of the	Ngan Ngo	2814
Period f	The MAILING DATE of this communication app r Reply	lears on the cover sheet with the c	orrespondence address
THE I - Exter after - If the - If NO - Failu - Any r earne	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).
Status	Decreasive to communication(s) filed on 44	lulu 2002	
1)⊠	Responsive to communication(s) filed on 14 J		
2a)⊠	, 	is action is non-final.	accountion as to the marite !-
3)□ Dispositi	Since this application is in condition for allowated closed in accordance with the practice under ton of Claims		
-	Claim(s) 1-13 is/are pending in the application	l	
,	4a) Of the above claim(s) is/are withdray	£	
	Claim(s) is/are allowed.		
•	Claim(s) <u>1-13</u> is/are rejected.		
-	Claim(s) is/are objected to.		
,	Claim(s) are subject to restriction and/o	relection requirement.	
• •	The specification is objected to by the Examine		
	The drawing(s) filed on is/are: a) accept	43	miner.
, _	Applicant may not request that any objection to the	45	
11) 🔲	The proposed drawing correction filed on	∬s: a) ☐ approved b) ☐ disappro	eved by the Examiner.
	If approved, corrected drawings are required in rep	oly to this Office action.	
12)	The oath or declaration is objected to by the Ex	aminer.	
Priority (under 35 U.S.C. §§ 119 and 120		
13)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).
a)	☐ All b)☐ Some * c)☐ None of:	*	
	1. Certified copies of the priority document	s have been received.	
	2. Certified copies of the priority document	s have been received in Applicati	on No
* 6	Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list.	reau (PCT Rule 17.2(a)).	
	Acknowledgment is made of a claim for domesti		
<i>,</i> —	n) The translation of the foreign language pro		
	Acknowledgment is made of a claim for domest		
Attachmen		, , ,	
1) Notice 2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)
.S. Patent and 1	rademark Office	tion Summary	Part of Paper No. 13

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The Request for Continued Examination filed July 14, 2003 has been entered and made of record as paper no. 12.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Simpson et al (cited by Applicants).

Simpson discloses in figures 1 and 2 a high frequency semiconductor device having a doping profile comprising a buried oxide (38A) and a silicon layer (32) in which an origin of a doping profile of the silicon is within a body region of the device. Simpson discloses on line 32 of column 4 that "the minimum charge doping Qmin ranging from zero to a relative low value". It would have been obvious that the doping profile is shifted to the left side of the oxide layer (38A). In re claim 8, Simpson discloses on line 37 of column 4 that the point x0 may be located about 2-4 microns from the edge 30A of the body region which is about the same distance between point x0 to the edge 38C of the top oxide 38.

Claims 1-13 stand alternatively rejected under 35 U.S.C. 103(a) as being unpatentable over Merchant et al (5,300,448), cited by Applicants.

Merchant et al also discloses a "shifted doping profile" in the silicon layer in which the dopant level is approximately zero. Note figures 3-4E of Merchant et al.

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Applicant's arguments filed May 14, 2003 have been fully considered but they are not persuasive.

The term "body region" is simply broad. Any region in a semiconductor layer can be defined as body region. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 057 (Fed. Cir. 1993). The body region is not limited to region 30 as defined by Applica its. Claims 1 and 8 refer to a 'semiconductor device" which is not limited to any particular device. Therefore any region in a semiconductor device can be defined as 'body region'. The region 32 can be broadly defined as "body region".

Further, note that the phases "shifted doping profile" and "an original of a doping profile" are simply broad. It is well known that any silicon layer before doping is in intrinsic (non-doped) state and therefore it has an original of a doping profile approximately zero.

This is a Request for Continued Examination of applicant's Application No. 10/015,640. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (703) 308-4938. The fax number for the Art unit is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Ngan Ngo

July 27, 2003